

## SPECIFICATIONS

Input Impedance:	Mic: 600 Ohms XLR balanced Source: 22K Ohms RCA
Max Input Level:	Mic: -14 dBV Mic level RCA: +24 dBV
Total - In/Out Connectors:	2: XLR, 6: Stereo RCA, 1: 3.5mm
Phantom Power:	+15 VDC
RCA Output Level:	+17 dBV max (impedance 1K Ohm)
Output Power:	20 Watts @ 4 Ohms/Per Zone 12 Watts @ 8 Ohms/Per Zone
Max Gain:	Mic: 70 dB Source: 30 dB
Noise Floor:	- 80 dB, THD: <.025%, 96 dB
S/N Ratio:	Power Output: 20 Watts X 2 (4 Ohms)
Voltage Gain:	32 dB
Maximum Supply Voltage:	30 VDC
THD:	.05% typical
EIN:	3 mV
Efficiency:	85%
Bandwidth:	20Hz - 25 kHz
Size:	19" x 1.75" x 4" (48.3 x 4.5 x 10 cm)
Weight:	7 lbs. (2.3 kg)

**WARNING:** THE MINIMUM SPEAKER IMPEDANCE IS 4 OHMS FOR EACH CHANNEL.

IF YOU CONNECT AND USE THE MA66 WITH A LOWER SPEAKER IMPEDANCE THAN LISTED ABOVE YOU WILL DAMAGE THE UNIT AND POSSIBLY OTHER EQUIPMENT THAT IS CONNECTED TO THE MA66.

**WARNING:** DO NOT GROUND THE SPEAKER OUTPUT TERMINALS. THE SPEAKER TERMINALS MAY NOT BE AT GROUND POTENTIAL.



**ROLLS**

Salt Lake City, Utah  
8/12



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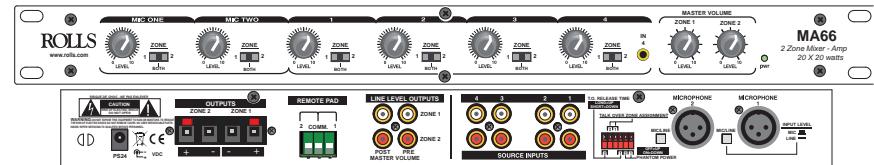
# ROLLS

## MA66

### 2 ZONE

### 20 + 20 watt

### Mixer/Amplifier



**MA66**  
2 Zone Mixer/Power Amplifier

## FEATURES

- Two XLR balanced inputs with phantom power
- Four stereo Source inputs, including a front panel 3.5mm input
- Remote pad control for each channel
- RCA pre and post Outputs
- Master Output Level control for each channel
- Low noise, efficient operation
- All in a single rack space
- Class D high efficiency amp

The MA66 is a 2 Zone mixer with a 20 + 20 watt high efficiency amp. Class D low radiated heat locations.

## Quick Start Guide

## INTRODUCTION

Thank you for your purchase of the MA66 2 zone mixer / 20 X 20 watt Power Amplifier.

**NOTE: THIS MANUAL ASSUMES THE USER HAS A WORKING KNOWLEDGE OF AUDIO ELECTRONICS, BALANCED AND UNBALANCED CONNECTIONS, AND PROPER SIGNAL LEVEL SETTING.**

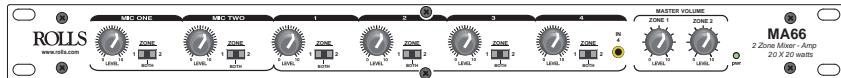
### INSPECTION / WARRANTY

1. Unpack and inspect the MA66 box and package.

If obvious physical damage is noticed, contact the carrier immediately to make a damage claim. We suggest saving the shipping carton and packing materials for safely transporting the unit in the future.

2. Please visit our web site at [www.roolls.com](http://www.roolls.com) and click on the Register Your Warranty Here button, or complete the Warranty Registration Card and return it to the factory.

## DESCRIPTION



### FRONT PANEL

Mic 1 - 2 LEVEL: Adjust the level of signal from the corresponding Mic Input.

1 - 4 LEVEL: Adjust the level of signal from the corresponding source input.

ZONE: Sets the zone output for the channel indicated.

ZONE 1: Signal for that channel will be sent to Zone 1 output.

ZONE 2: Signal for that channel will be sent to Zone 2 output.

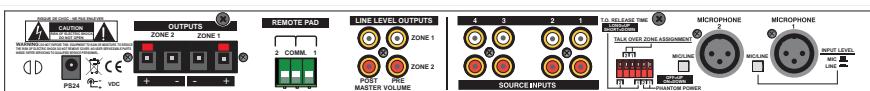
BOTH: Signals for that channel will be sent to both Zone 1 and Zone 2 outputs.

IN 4: 3.5mm Input jack to Source Input 4.

Source 1 - 4: Adjust the volume of input from the RCA Source Inputs, and the 3.5mm in.

MASTER VOLUME 1&2: Adjusts the overall volume of the MA66 Main Outputs.

pwr: LED indicating power is applied to the MA66 and the unit is on.



### REAR PANEL

PS24: For connection to the included power supply.

SPEAKER OUTPUTS: Push terminals for connection to speaker wire.

REMOTE PAD: 3 Pin barrier strip for connection to a remote potentiometer for volume pad control. 100K Ohm audio taper potentiometer is recommended.

LINE LEVEL OUTPUTS: RCA line level outputs.

POST MASTER: Is the output that is after (post) Master Volume controls on the front panel.

PRE MASTER: Is the output that is before (pre) Master Volume controls on the front panel.

SOURCE INPUTS: Stereo RCA jacks, Channels 1 - 4, for connection to stereo sources such as AM/FM tuners, MP3 players, cd players, or video players.

DIP SWITCH: Contains the small switches for engaging Mic 1 and 2 phantom power, the priority (Talk Over) functions, and the Talk Over Release Time select.

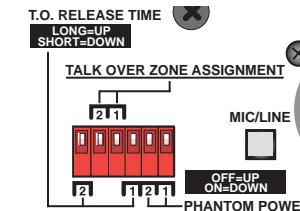
NOTE: The release time is effected by this setting, plus the level of input signal - the higher the input signal, the longer the release time.

Mic 1-2: XLR inputs for dynamic or condenser microphones, or balanced line-level signals.

MIC/LINE SWITCHES: For selection of mic or line level inputs to the XLR 1 and 2 inputs (Pad is 30 dB).

## CONNECTION / OPERATION

Connect low impedance microphones to the Mic inputs (or line level XLR signals with the mic/line switch set to the proper setting). Connect source signals such as CD players, MP3 players or video players to the RCA Source Inputs. Connect 3.5mm sources to the front panel input.



### DIP SWITCH SETTINGS

- PHANTOM POWER: If a microphone requires phantom power, move the Mic channel's corresponding PHANTOM POWER DIP switch to the down position. This applies 24 volts phantom power to the indicated microphone.

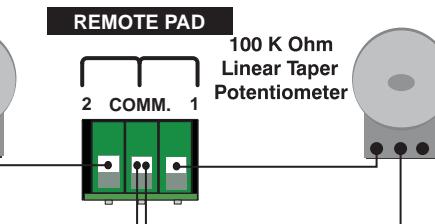
- Talk Over Zone Assignment 1: When in the ON position, all program material on ZONE 1 will be "ducked" or muted when signal is present on MICROPHONE 1 or MICROPHONE 2. As a note at least one of the mics must be set to Zone 1 to talk over. This function is used for paging.

- Talk Over Zone Assignment 2: When in the ON position, all program material on ZONE 2 will be "ducked" or muted when signal is present on MICROPHONE 1 or MICROPHONE 2. As a note at least one of the mics must be set to Zone 2 to talk over. This function is used for paging.

- T.O. Release Time 1: This adjusts the Talk Over Release time for Zone 1.

- T.O. Release Time 2: This adjusts the Talk Over Release time for Zone 2.

Down = Long release time UP = Shorter release time



REMOTE PAD: 3 Pin barrier strip for connection to a remote potentiometer for volume pad control. 100K Ohm audio taper potentiometer is recommended (others will work).

2: Connection to potentiometer to pad Zone 2.

COMM: Common Ground for connection to pots.

1: Connection to potentiometer to pad Zone 1. As illustrated. As a note if the potentiometer pad is working opposite of what you intended just reverse the wires going to that potentiometer.



The slotted holes in the back of the MA66 are for the attachment of a wire tie (included on the PS24 cord) or a small zip tie (not included), for power cord strain relief as needed. Just thread the tie thru the holes and attach the cord.